

B. G. JAMIESON & C. A. KELLER.
INSULATOR.

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1,056,998.

Patented Mar. 25, 1913.

Fig. 1.

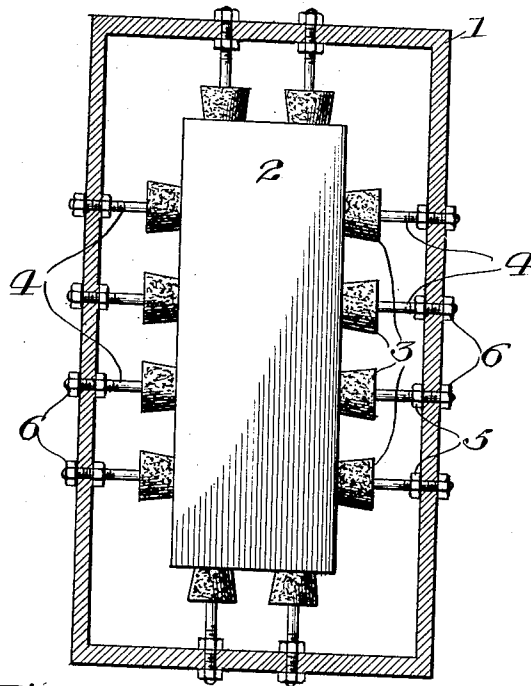
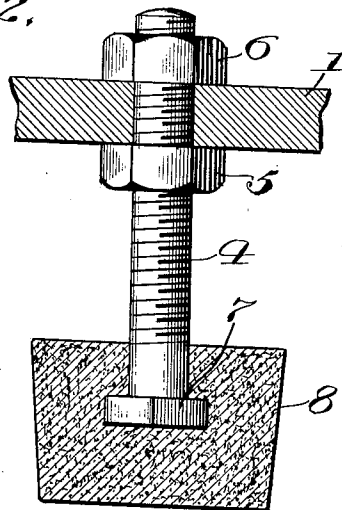


Fig. 2.



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UNITED STATES PATENT OFFICE

BERTRAND G. JAMIESON AND CARL A. KELLER, OF CHICAGO, ILLINOIS.

INSULATOR.

1,056,998.

Specification of Letters Patent.

Patented Mar. 25, 1913.

Application filed May 4, 1909. Serial No. 493,865.

To all whom it may concern:

Be it known that we, BERTRAND G. JAMIESON and CARL A. KELLER, citizens of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Insulators, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

Our invention relates to insulating devices, and is designed primarily to provide an insulator which may be, in its preferred form, constructed of an insulating medium, consisting of material which is not affected by high temperature. It is very necessary that insulators, in their ordinary operation, be of such a character that the heating of the conductors, or any other heating effects, will not injuriously influence their insulating qualities, and we have devised an insulating device which is capable of meeting these requirements.

We will explain our invention more in detail by reference to the accompanying drawing, illustrating one form of the invention and one mode of its application, in which—

Figure 1 shows how our invention may be applied, and Fig. 2 is a detail view of one form of insulator.

Referring to the drawing, we have shown a surrounding casing 1, within which a bus-bar or other conductor 2 is placed, which bus-bar is designed to carry heavy currents and is thereby susceptible to great heating effects, not only due to itself but due to surrounding conditions. In the form of insulator which we have here shown, we mount this bus-bar within the casing 1, through the interposition of our improved insulators 3, 3, which are fastened to the sides of the casing 1, and which thus maintain the bus-bar in place irrespective of the heating of said bus-bar.

Referring more particularly to Fig. 2, which illustrates in detail the insulators above referred to, we show a bolt 4, which is provided with two nuts 5 and 6, by means of which the position of said bolt relative to said casing 1 can be determined, and the

bolt properly mounted in position to support the bus-bar 2. The bolt 4 has a head 7, and our invention contemplates the surrounding of the upper portion of the bolt 4, including the head, with a hydraulic cement product covering or head 8, which is firmly attached to the bolt 4. This hydraulic cement head 8 is preferably impregnated with waterproofing compound around its exposed surfaces, so as to exclude moisture from said head, and likewise said hydraulic cement head is so constructed that excess moisture, which may be present in its construction, is excluded before said head has been completed and is ready for use. It is apparent from this that we have a moisture-proof medium interposed between the bolts 4 and the bus-bar 2, which moisture-proof medium, being constructed of cement or similar material, is capable of withstanding the effects of heat to a very great extent, so that said insulator remains intact, even though the normal temperature within the casing 1 has reached undue proportions.

While we have herein shown and particularly described the preferred embodiment of our invention, we do not limit ourselves to the precise construction and arrangement as herein set forth, but

Having thus described our invention, what we claim as new and desire to secure by Letters Patent is:—

1. An insulating device adapted to support current carrying conductors consisting of a bolt having its head incased in an insulating medium, said medium adapted to rest against the conductor, a framework within which said bolt is mounted and a nut for adjusting the position of said bolt against said conductor.

2. An insulating device adapted to support current carrying conductors consisting of a bolt having its head incased in an insulating medium, said medium adapted to rest against the conductor, a framework within which said bolt is mounted, a nut for adjusting the position of said bolt against said conductor and a second nut for securing said bolt in place.

3. An insulating device adapted to support current carrying conductors consisting of a bolt having its head incased in an insu-

lating heat resisting medium, said medium adapted to rest against the conductor, a framework within which said bolt is mounted, a nut for adjusting the position of said
5 bolt against said conductor and a second nut for securing said bolt in place.

In witness whereof, we hereunto sub-

scribe our names this 23d day of April, A. D. 1909.

BERTRAND G. JAMIESON.

CARL A. KELLER.

Witnesses:

MAX W. ZABEL,

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